

Message

---

**From:** Schechter, Kathryn [Schechter.Kathryn@epa.gov]  
**Sent:** 6/19/2017 6:42:55 PM  
**To:** Roberts, Justin [Roberts.Justin@epa.gov]; Libelo, Laurence [Libelo.Laurence@epa.gov]; Tobias, David [Tobias.David@epa.gov]  
**Subject:** RE: GenX

[https://www.chemours.com/Industrial\\_Bakery\\_Solutions/en\\_GB/assets/downloads/Chemours\\_GenX\\_Brochure\\_Final\\_07July2010.pdf](https://www.chemours.com/Industrial_Bakery_Solutions/en_GB/assets/downloads/Chemours_GenX_Brochure_Final_07July2010.pdf)

There is a structure in this website.

---

**From:** Roberts, Justin  
**Sent:** Monday, June 19, 2017 2:42 PM  
**To:** Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Libelo, Laurence <Libelo.Laurence@epa.gov>; Tobias, David <Tobias.David@epa.gov>  
**Subject:** RE: GenX

I wasn't in this meeting. What does GenX look like? Is it a perfluoro enol ether?

-Justin Roberts  
Chemist, U.S. EPA  
(202) 564-8564

---

**From:** Schechter, Kathryn  
**Sent:** Monday, June 19, 2017 11:23 AM  
**To:** Libelo, Laurence <Libelo.Laurence@epa.gov>; Tobias, David <Tobias.David@epa.gov>; Roberts, Justin <Roberts.Justin@epa.gov>  
**Subject:** RE: GenX

You are correct, we do have limited knowledge. I was looking at "simple" degradation scenarios (e.g., ester hydrolysis, peroxide cleavage, etc).

---

**From:** Libelo, Laurence  
**Sent:** Monday, June 19, 2017 10:51 AM  
**To:** Tobias, David <Tobias.David@epa.gov>; Schechter, Kathryn <Schechter.Kathryn@epa.gov>; Roberts, Justin <Roberts.Justin@epa.gov>  
**Subject:** RE: GenX

There are about 140 fluoro ethers since 1990. I don't know how many before that. A lot more were grandfathered onto the inventory.

**Ex. 5 - Deliberative Process**

**Ex. 5 - Deliberative Process**

See CBI email

---

**From:** Tobias, David  
**Sent:** Monday, June 19, 2017 10:39 AM

**To:** Schechter, Kathryn <[Schechter.Kathryn@epa.gov](mailto:Schechter.Kathryn@epa.gov)>; Libelo, Laurence <[Libelo.Laurence@epa.gov](mailto:Libelo.Laurence@epa.gov)>; Roberts, Justin <[Roberts.Justin@epa.gov](mailto:Roberts.Justin@epa.gov)>

**Subject:** RE: GenX

Could you send them on the CBI side?

Are there a lot...

David A. Tobias  
202.564.8534  
6334 P - WJC East  
Risk Assessment Division (RAD)  
Office of Pollution Prevention and Toxics (OPPT)  
My office hours : 8:30 am - 5:00 pm

---

**From:** Schechter, Kathryn

**Sent:** Monday, June 19, 2017 9:53 AM

**To:** Libelo, Laurence <[Libelo.Laurence@epa.gov](mailto:Libelo.Laurence@epa.gov)>; Tobias, David <[Tobias.David@epa.gov](mailto:Tobias.David@epa.gov)>; Roberts, Justin <[Roberts.Justin@epa.gov](mailto:Roberts.Justin@epa.gov)>

**Subject:** RE: GenX

We do have other submissions that could possible degrade to the product (or at least the free acid)

---

**From:** Libelo, Laurence

**Sent:** Monday, June 19, 2017 9:28 AM

**To:** Tobias, David <[Tobias.David@epa.gov](mailto:Tobias.David@epa.gov)>; Roberts, Justin <[Roberts.Justin@epa.gov](mailto:Roberts.Justin@epa.gov)>

**Cc:** Schechter, Kathryn <[Schechter.Kathryn@epa.gov](mailto:Schechter.Kathryn@epa.gov)>

**Subject:** RE: GenX

## Ex. 5 - Deliberative Process

Chemours makes lots of perfluoroethers. Some are longer monomers. We might want to see what else they have on the inventory and what they make in NC>

[https://www.chemours.com/FluoroIntermediates/en\\_US/products/index.html](https://www.chemours.com/FluoroIntermediates/en_US/products/index.html)

---

**From:** Tobias, David

**Sent:** Monday, June 19, 2017 9:24 AM

**To:** Libelo, Laurence <[Libelo.Laurence@epa.gov](mailto:Libelo.Laurence@epa.gov)>; Schweer, Greg <[Schweer.Greg@epa.gov](mailto:Schweer.Greg@epa.gov)>; Roberts, Justin <[Roberts.Justin@epa.gov](mailto:Roberts.Justin@epa.gov)>

**Cc:** Allison, Rose <[Allison.Rose@epa.gov](mailto:Allison.Rose@epa.gov)>; Schechter, Kathryn <[Schechter.Kathryn@epa.gov](mailto:Schechter.Kathryn@epa.gov)>

**Subject:** RE: GenX

Hello Greg

Do you mean environmentally degraded? It would have to be rapidly enough to release many kilograms per day (on average 6 kg, some days more), so it would have to mean there is a lot of nearby perfluoro ether contamination. As Laurence points out there could be environmental sources – but probably start with the factory for finding the source.

## Ex. 5 - Deliberative Process

# Ex. 5 - Deliberative Process

David A. Tobias  
202.564.8534  
6334 P - WJC East  
Risk Assessment Division (RAD)  
Office of Pollution Prevention and Toxics (OPPT)  
My office hours : 8:30 am - 5:00 pm

---

**From:** Libelo, Laurence  
**Sent:** Monday, June 19, 2017 8:55 AM  
**To:** Schweer, Greg <[Schweer.Greg@epa.gov](mailto:Schweer.Greg@epa.gov)>; Tobias, David <[Tobias.David@epa.gov](mailto:Tobias.David@epa.gov)>; Roberts, Justin <[Roberts.Justin@epa.gov](mailto:Roberts.Justin@epa.gov)>  
**Cc:** Allison, Rose <[Allison.Rose@epa.gov](mailto:Allison.Rose@epa.gov)>  
**Subject:** RE: GenX

Greg,

# Ex. 5 - Deliberative Process

David and Justin, What do you think.

Ng et al 1995  
<http://pubs.acs.org/doi/pdf/10.1021/la00001a024>

---

**From:** Schweer, Greg  
**Sent:** Monday, June 19, 2017 8:00 AM  
**To:** Lynch, David <[Lynch.David@epa.gov](mailto:Lynch.David@epa.gov)>; Libelo, Laurence <[Libelo.Laurence@epa.gov](mailto:Libelo.Laurence@epa.gov)>  
**Cc:** Allison, Rose <[Allison.Rose@epa.gov](mailto:Allison.Rose@epa.gov)>  
**Subject:** Fwd: GenX

David and Laurence,

Do you think that perfluoropropyl vinyl ether (PPVE) (CAS 1623-05-8) can be degraded to GenX (CAS 62037-80-3)?  
ent from my iPhone

Begin forwarded message:

**From:** [Schweer.Greg@epa.gov](mailto:Schweer.Greg@epa.gov)  
**Date:** June 18, 2017 at 12:02:50 PM EDT  
**To:** "Doa, Maria" <[Doa.Maria@epa.gov](mailto:Doa.Maria@epa.gov)>

**Cc:** "Wolf, Joel" <[Wolf.Joel@epa.gov](mailto:Wolf.Joel@epa.gov)>

**Subject: Re: GenX**

Maria and Joel,

I checked the Inventory. PPVE is on the public inventory and did NOT come in as a PMN. The CAS number is 1623-05-8. Would be interesting to see what CD-R has about PPVE.

I will ask Dave L. and Laurence on Monday what they think about this proposed degradation pathway.

Sent from my iPhone

On Jun 16, 2017, at 10:35 PM, Doa, Maria <[Doa.Maria@epa.gov](mailto:Doa.Maria@epa.gov)> wrote:

Greg,

## **Ex. 5 - Deliberative Process**

Joel,

It also can be an example for the reg neg.

Maria J. Doa, Ph.D.

Director

Chemical Control Division

Office of Chemical Safety and Pollution Prevention

U.S. Environmental Protection Agency